

CMA-BDHH/6520/E0-8

Quad-Port Antenna

XX-Pol: 1710-2180 / 1710-2180

Electrical specification:

Frequency range per input (MHz)	2 x 1710-2180			2 x 1710-2180		
	1710-1880	1850-1990	1920-2180	1710-1880	1850-1990	1920-2180
Frequency band definitions (MHz)						
Polarization (°)	Dual linear ±45			Dual linear ±45		
Gain (dBi)	19.0	19.4	20.0	19.0	19.4	20.0
Horizontal = 3dB beamwidth (°) ±4°	65	64	61	65	64	61
Vertical = 3dB beamwidth (°) ±0.4°	6.0	5.6	5.3	6.0	5.6	5.3
Adjustable electrical downtilt (°)	0 – 8			0 – 8		
Front to back ratio +/-30° total power (dB)	26			> 26		
First upper sidelobe suppression (dB)	0°, 4°, 8° >18, >17, >14			0°, 4°, 8° >18, >17, >14		
First nullfill below horizon (dB)	< 20			< 20		
Cross-polar discrimination +/-0° (dB)	> 20			> 20		
Cross-polar discrimination +/-60° (dB)	> 10			> 10		
VSWR	< 1.5:1			< 1.5:1		
Isolation between inputs (dB)	> 30			> 30		
Isolation between bands (dB)	> 30			> 30		
Antenna Efficiency*	> 94 %			> 94 %		
Inter modulation, IM3 (dBc)	<-153 @2x43 dBm, typical <-160			<-153 @2x43 dBm, typical <-160		
Nominal impedance (Ω)	50			50		
Max power per input (W)	500			500		

Mechanical specification:

Connectors	4 x 7/16 female
Connector position	Bottom
Lightning protection	DC grounded
Height/Width/Depth mm (in)	1542 (60.7) / 374 (14.7) / 132 (5.2)
Antenna weight kg (lb)	22 (49)
Wind load at 42 m/s (94 mph)	
Frontal:	520 N (117 lbf)
Lateral:	101 N (23 lbf)
Rear:	654 N (147 lbf)
Survival wind speed	67 m/s (150 mph)
Colour radome	Light Grey, RAL 7035
Radome material	ASA

Mounting hardware:

Mounting bracket	2
Bracket weight (complete)	5.2 kg (11.5 lb)
Pole diameter	45-120 mm (1.8-4.7 in)
Tilt bracket	0° - 5° mechanical

Ordering information:

CMA-BDHH/6520/E0-8/MET	110410
CMA-BDHH/6520/E0-8/RET	110415

